



DIVISION OF MINES
BOARD OF COAL MINING EXAMINERS
CERTIFICATION REQUIREMENTS
<http://www.dmme.virginia.gov/dm/default.htm>

ELECTRICAL REPAIRMAN UNDERGROUND (COAL)

PHOTO ID REQUIRED

Article 3 of the **Coal Mine Safety Laws of Virginia** establishes requirements for certification of coal mine workers. The certification requirements are included in §45.1-161.24 through §45.1-161.41 in which the Board of Coal Mining Examiners is established for the purpose of administering the certification program. The Board has promulgated certification regulations 4 VAC 25-20, which set the minimum standards and procedures required for Virginia coal miner examinations and certifications.

CERTIFICATION CLASSIFICATION: **Underground Electrical Repairman (Coal)*

This certification authorizes the holder to:

- Perform electrical work and inspections at all underground and surface areas of underground coal mines
- Make examinations on electrical equipment
- Conduct and record results of electrical examinations

NOTE: This certification shall be used at surface and underground mines.

APPLICATION/EXPERIENCE REQUIREMENTS:

- Application (BCME-1) and \$40.00 fee 5 working days prior to examination
 - **Note:** Classes are limited to 20 people and tend to fill quickly. Application fees are due no later than 5 working days prior to the examination but this will not guarantee that an opening will be available.
- One year of electrical experience in underground coal mining under the direction of a certified underground electrical repairman or appropriately related work experience approved by the Chief of the Division of Mines. **NOTE: Experience must be submitted within 5 years of passing the examination. After 5 years records are destroyed. Must reapply if future certification is desired.**
- Current first aid training (MSHA 5000-23 Annual Retraining or New Miner Inexperienced Training acceptable)
- Six months credit will be granted for electrical educational training from a college, technical school or vocational school (certificate required)
- Hold a General Miner Certification

NOTE: Must provide MSHA Individual Identification Number prior to certification being issued.

EXAMINATION REQUIREMENTS: A score of 80% on each element of the examination.

ELEMENTS OF EXAM	NUMBER OF QUESTIONS
▪ Alternating Current (AC)	20
▪ First Aid (FA)	25
▪ Direct Current (DC)	20
▪ Circuits & Equipment/drawings (CE)	25
▪ Cable Splicing (CS)	20
▪ High Voltage (HV)	20
▪ Legal Requirements (LR)	20
▪ Permissibility (PR)	20
▪ Gas Detection - practical demonstration	
▪ Records - Practical Stations (7)	
1. Control Circuit Troubleshooting - Electrical Schematic Reading (ER)	
2. Electrical Examinations - Record Keeping Underground (RU)	
3. Electrical Examinations – Record Keeping Surface (RS)	
4. Cable Troubleshooting (CT)	
5. Circuit Breaker Troubleshooting (CB)	
5A. Pump Station (PP)	
6. Permissibility (PD)	
7. High Voltage Power Move (VP)	

RECOMMENDED REFERENCE/STUDY MATERIALS:

- Electrical Study Guide (\$20.00)
- Coal Mine Safety Laws of Virginia (\$5.50)
- BCME Requirements (No Charge)
- Title 30 CFR Parts 18, 75, 77 (Included in study guide)
- First Aid for Miners Study Guide (\$9.00)

The above mentioned study materials are available at the Department of Mines, Minerals and Energy's Big Stone Gap Office, Customer Assistance Center (276) 523-8233 and Lebanon Field Office (276) 415-9650.

***8 hours Electrical Repairman continuing education will update this certification.**